



GBJ15005G THRU GBJ1510G

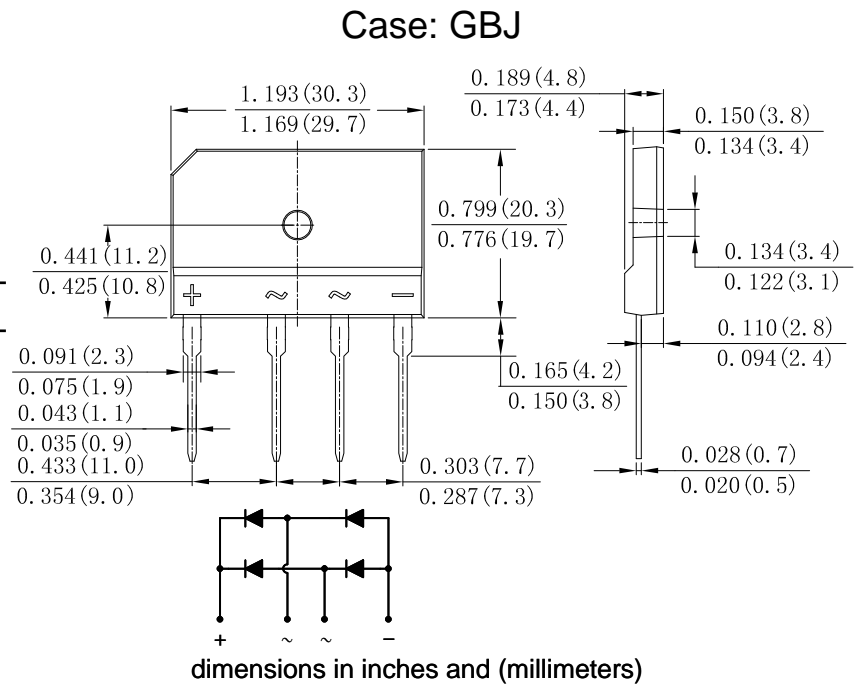
Single Phase 15.0AMP Glass Passivated Bridge Rectifier

Features

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data

- Case: Molded plastic, GBJ
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
 Single Phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	GBJ 15005G	GBJ 1501G	GBJ 1502G	GBJ 1504G	GBJ 1506G	GBJ 1508G	GBJ 1510G	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}								
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@ $T_c=90^\circ C$	$I_{F(AV)}$	15.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	320							A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	424.96							A^2s
Forward Voltage per element @ $I_F=7.5A$ @ $I_F=15A$	V_{FM}	1.0 1.1							V
Peak Reverse Current @ $T_J=25^\circ C$ At Rated DC Blocking Voltage @ $T_J=125^\circ C$	I_R	5.0 200							μA
Dielectric Strength	V_{ids}	2500							V
The proposed installation torque Max torque	Tor	5.0 8.0							Kgf.cm
Typical Junction Capacitance (Note 2)	C_J	90							pF
Between junction and ambient, Without heatsink	$R_{\theta JA}$	12							$^\circ C/W$
Between junction and case, With heatsink	$R_{\theta JC}$	1.5							
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150							$^\circ C$

Note: 1. Unit case mounted on aluminum plate heatsink
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..



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Fig. 1 Output Current Derating Curve

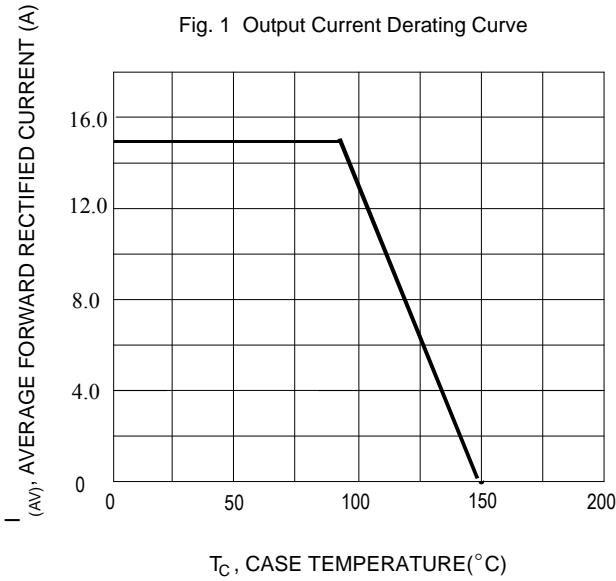


Fig. 2 Typical Forward Characteristics

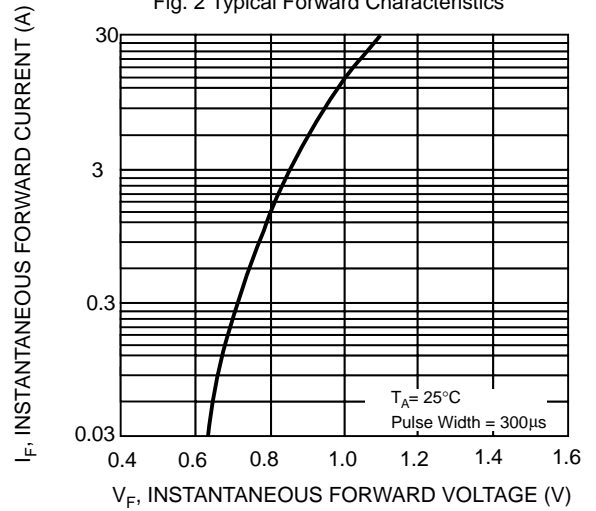


Fig. 3 Maximum Peak Forward Surge Current

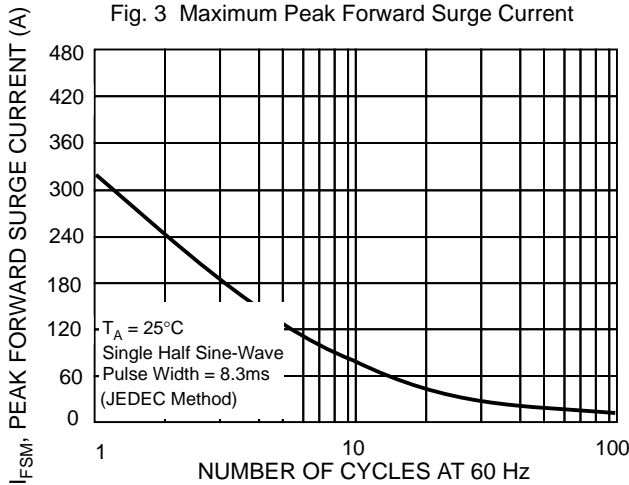


Fig. 4 Typical Junction Capacitance

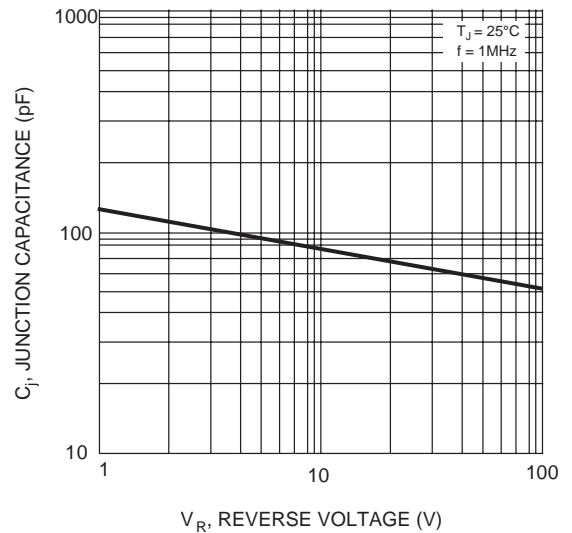
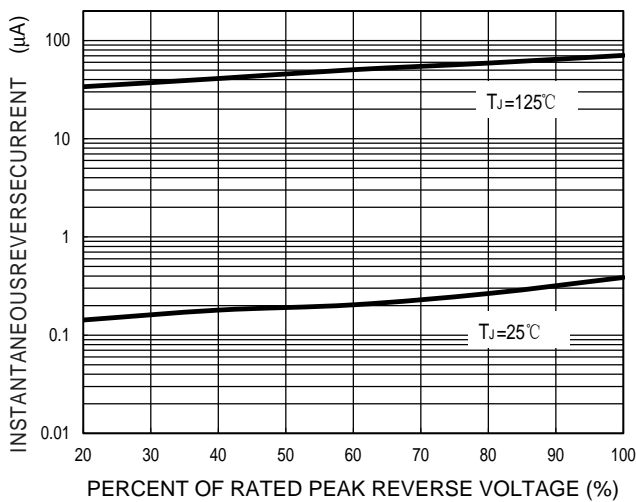


Fig. 5 Typical Reverse Characteristics





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